

**REMARKS**

Prior to Examination on the merits, kindly enter the amendments presented herein.

Claims 1-402 were pending in the application. Please cancel claims 2-9, 12-15, 17-131, 133-153, 156-160, 162, 163, 166-178, 180, 185, 187, 188, 190, 192-195, 197-213, 215-224, 226-245, 247, 248, 251-257, 259-268, 270-337, 339, 343-374, and 378-401 without prejudice and without disclaimer as to the subject matter thereof. Thus, after entry of the amendments claims 1, 10, 11, 16, 132, 154, 155, 161, 164, 165, 179, 181-184, 186, 189, 191, 196, 214, 225, 246, 249, 250, 258, 269, 338, 340-342, 375-377, 402 and 403 will be pending and under consideration.

Claims 179, 184, 186, 191, 196, 225, 246, 249 and 269 were previously amended in an Article 19 Amendment to correct the claim dependency. Each of these claims depends from claim 165. Claims 181, 183, and 214 are amended herein to adjust claim dependency so claims do not depend from canceled claims.

Claims 1, 132, 154, 155, and 161 have been amended to include “or into” to clarify that “sorbing” refers to adsorbing (onto) or absorbing (into) a sorbent, as defined in the specification, for example at paragraph [0004].

Claims 11, 132, 161, 338, 341, and 377 have been amended to change “adsorbed,” “adsorbent,” “adsorbing,” and/or “adsorption” to “sorbed,” “sorbent,” “sorbing,” and/or “sorption,” respectively. The specification states that the embodiments of the invention include adsorption and absorption. Thus, the use of “sorption,” “sorbent,” “sorbing,” and/or “sorbed” is supported throughout the specification, is appropriate to cover these embodiments, helps reduce the number of claims of the application, and relieves the burden on the Examiner.

New Claim 403 has been added to encompass the enumerated systems that include a sorption device, thereby consolidating original claims 275, 281-283, 285, 287, 289, 293, 297, 298, 304-306, 309, 310, 314-321, 323-328, and 337.

Claim 183 has been amended to incorporate the feature of collecting the desorbed first component (here, a reaction product) as described in the specification at paragraph [0114].

Claim 179 has been amended to provide antecedent basis for the second component of Claim 182. The second component was originally introduced in original Claim 180.

**DOCKET NO.:** SDG-0039  
**Application No.:** 10/582,314  
**Preliminary Amendment - First Action Not Yet Received**

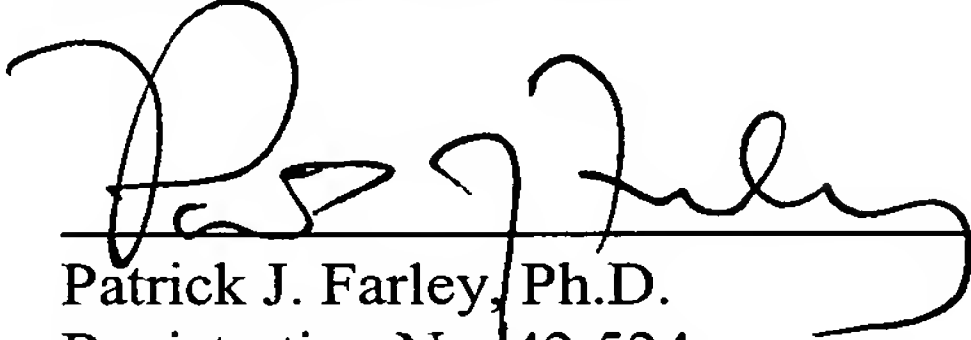
**PATENT**

Claim 269 has been amended to correct a minor typographical error, substituting a period for the semicolon.

No new matter is added by the foregoing amendments. Further, cancellation of the claims is requested to reduce the number of claims for examination and for a concomitant reduction in the claims fee. Applicant does not amend any of the claims herein for any reason related to patentability.

Applicant respectfully requests examination on the merits and early allowance of the claims as amended.

Respectfully submitted,

  
Patrick J. Farley, Ph.D.  
Registration No. 42,524

Date: September 12, 2006

Woodcock Washburn LLP  
One Liberty Place - 46th Floor  
Philadelphia PA 19103  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439